

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("5986827" "20020163741").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/02 13:42
S2	2668	(six adj2 (axis axes degree)) and (wafer chip)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/02 13:43
S3	1832	S2 and (optic optical)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/02 13:47
S5	903	S3 and (measur\$3 with (position inclin\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/02 13:48
S6	12	"798812"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/05 07:16
S7	11331	(355/53,72-76 310/10/12 318/611, 649,653 356/614).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:19
S8	679	(356/614).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/05 07:18
S9	1329498	position\$3 and measur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/05 08:31
S13	20111	S9 and ((six) with (axis axes modes degree freedom pivot axle shaft hinge))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:20

## EAST Search History

S14	1145	S13 and ((remove eliminate avoid forgo) with (contact friction))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:38
S15	465	S14 and magnet\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/05 10:34
S16	1330535	position\$3 and measur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 08:25
S17	20130	S16 and ((six) with (axis axes modes degree freedom pivot axle shaft hinge))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 08:25
S18	2421	S17 and elastic	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 08:26
S19	1145	S17 and ((remove eliminate avoid forgo) with (contact friction))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 08:26
S20	465	S19 and magnet\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 08:26
S21	125	S20 and elastic	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 09:01
S22	64	S21 and mirror	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 09:38
S35	135116	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 13:14

## EAST Search History

S36	571	S35 and ((measure detect) adj3 (angle inclination))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 13:16
S37	178	S35 and "wave aberration"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 13:14
S38	1153	S35 and ((measure detect determine) adj3 (angle inclination))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:55
S39	7	S37 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 13:16
S40	961	(356/124).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:37
S41	18	S40 and ((six) with (axis axes modes degree freedom pivot axle shaft hinge))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:20
S42	0	("2005/0206880").URPN.	USPAT	OR	ON	2006/06/06 14:32
S43	19	S40 and ((remove eliminate avoid forgo) with (contact friction))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 14:39
S45	43	S40 and ((measure detect determine) adj3 (angle inclination))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 15:04
S46	8	("6618146" "6144719" "6097790" "6081581" "6078640" "5828572" "5467637" "5317615").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 15:05

## EAST Search History

S47	8	("6888620" "6029959" "20060012258" "6129185" "5438174" "6327026" "6688439" "20010052970").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 15:07
S48	5	("5896961" "6327026" "6084329" "20020163741" "5095764").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 15:08
S49	20	S46 S47 S48	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/06 15:08
S50	5	("2002/0163741").URPN.	USPAT	OR	ON	2006/06/07 07:10
S56	135116	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:06
S57	2046	S56 and (optic\$2 adj2 (position mov\$3 adjust))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:33
S58	31	S57 and "PL" and (triang\$5 same (lens optic\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:08
S59	136	S57 and (triang\$5 same (lens optic\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:25
S60	105	S59 not S58	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:11
S61	4571	S56 and ((lens optic\$2) adj2 (position mov\$3 adjust\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:12

## EAST Search History

S65	924	S57 and (UV ultraviolet)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:15
S66	128	S65 and (triang\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:17
S68	15	S56 and (mirror with "and" with (laser interf\$9))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:36
S69	48	S65 and (triang\$5 same (lens optic\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:25
S70	19	("20010008440"   "20010012154"   "20010023042"   "20010038497"   "20010053489"   "20020126380"   "20030086171"   "4993823"   "5184176"   "5805273"   "6084708"   "6191880"   "6201634"   "6248486"   "6252712"   "6285512"   "6307688"   "6366404"   "6646718").PN. OR ("6879379").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/07 09:26
S71	18	("3957359"   "4017878"   "4161120"   "5249082"   "5521764"   "5774274"   "5966248").PN. OR ("6307688").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/07 09:26
S73	13587	S56 and (optic\$2 and hold)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:33
S74	4049	S56 and (optic\$2 with hold\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:35
S75	9277	(optic\$2 with hold\$3) and (UV ultraviolet)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:35

## EAST Search History

S77	2261	S75 and (mirror with (laser interf\$9))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:36
S79	591	S77 and piezo\$9	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/07 09:38
S80	10	("5172160"   "5473410"   "5528118"   "5623853"   "5781277"   "5959427"   "6008885"   "6036162"   "6359688"   "6522388").PN. OR ("6879375").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/07 09:44
S81	1	("5638211").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/07/06 09:40
S82	137527	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:05
S83	180	S82 and "wave aberration"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:05
S88	7	S83 and ((align calibrat\$3) with aberration)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:13
S89	0	S83 and ((align calibrat\$3) with aberrometer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:14
S90	1	S83 and aberrometer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:14
S91	106	aberrometer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:14

## EAST Search History

S92	38	S91 and calibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:15
S93	5	S91 with calibrat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 09:15
S94	1	("6658282").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/07/06 09:40
S95	33	(US-20020163741-\$ or US-20040179192-\$ or US-20040227915-\$ or US-20040036846-\$ or US-20030035090-\$ or US-20020166982-\$ or US-20010055117-\$ or US-20050134862-\$ or US-20030213382-\$ or US-20040214483-\$ or US-20040189938-\$).did. or (US-6885465-\$ or US-6841323-\$ or US-6741332-\$ or US-5172160-\$ or US-6879375-\$ or US-5654553-\$ or US-7057193-\$ or US-6859257-\$ or US-6437864-\$ or US-6355994-\$ or US-6184596-\$ or US-5925956-\$ or US-5818137-\$ or US-6671039-\$ or US-6081581-\$ or US-6922293-\$ or US-6873478-\$ or US-6331885-\$ or US-6774981-\$ or US-6831737-\$ or US-5638211-\$ or US-6637884-\$). did.	US-PGPUB; USPAT	OR	ON	2006/07/06 10:48
S96	17	S95 and (ultraviolet UV)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:46
S97	1	S95 and (cool\$3 with radiat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 11:28

## EAST Search History

S98	33	(US-20020163741-\$ or US-20040179192-\$ or US-20040227915-\$ or US-20040036846-\$ or US-20030035090-\$ or US-20020166982-\$ or US-20010055117-\$ or US-20050134862-\$ or US-20030213382-\$ or US-20040214483-\$ or US-20040189938-\$).did. or (US-6885465-\$ or US-6841323-\$ or US-6741332-\$ or US-5172160-\$ or US-6879375-\$ or US-5654553-\$ or US-7057193-\$ or US-6859257-\$ or US-6437864-\$ or US-6355994-\$ or US-6184596-\$ or US-5925956-\$ or US-5818137-\$ or US-6671039-\$ or US-6081581-\$ or US-6922293-\$ or US-6873478-\$ or US-6331885-\$ or US-6774981-\$ or US-6831737-\$ or US-5638211-\$ or US-6637884-\$). did.	US-PGPUB; USPAT	OR	ON	2006/07/06 13:46
S99	7	S98 and (develop)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:46
S10 0	137527	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:47
S10 1	18700	S100 and develop	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:48
S10 2	74	S101 and (method with develop).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:51
S10 3	6	S101 and (method with develop).ab. and (method same expose).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:51



## EAST Search History

S10 5	33	S102 and expose	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:56
S10 6	30429	S100 and ((many several multiple) with layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 13:56
S10 7	2704	S106 and expose and develop	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 14:35
S10 9	4	S106 and (expose with develop).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/06 14:37
S11 1	19	S100 and (expose with develop).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 07:24
S11 2	6	((("20020018192") or ("6501535") or ("6747783") or ("6724464") or ("6788393") or ("6198527"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/07/07 07:29
S11 3	9	"981976"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 07:29
S11 4	137527	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 08:44
S11 5	180	S114 and "wave aberration"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 08:52
S11 6	76	S115 and (aberr\$5 with (position align focus))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 09:18

## EAST Search History

S11 7	75	S115 and (aberr\$5 with (position focus distance))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 09:31
S11 8	14	"291270"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 10:12
S11 9	1	"20020018192"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/07 10:12
S12 0	36	(US-20020018192-\$ or US-20040227915-\$ or US-20040036846-\$ or US-20030213382-\$ or US-20030035090-\$ or US-20040174506-\$ or US-20050134862-\$ or US-20020166982-\$ or US-20010055117-\$ or US-20010028052-\$ or US-20030121022-\$ or US-20030081722-\$ or US-20040179192-\$ or US-20020163741-\$ or US-20040214483-\$).did. or (US-6331885-\$ or US-6841323-\$ or US-6741332-\$ or US-6437864-\$ or US-6355994-\$ or US-6184596-\$ or US-5925956-\$ or US-5818137-\$ or US-5638211-\$ or US-6873478-\$ or US-6879375-\$ or US-5654553-\$ or US-5172160-\$ or US-7057193-\$ or US-4215192-\$ or US-7019846-\$ or US-6869807-\$ or US-6671039-\$ or US-6922293-\$ or US-6081581-\$ or US-6774981-\$).did.	US-PGPUB; USPAT	OR	ON	2006/07/10 09:57
S12 1	10	S120 and piezo\$	US-PGPUB; USPAT	OR	ON	2006/07/10 10:16
S12 2	3	S120 and peltier	US-PGPUB; USPAT	OR	ON	2006/07/10 10:38
S12 3	1	S120 and "vacuum bulkhead"	US-PGPUB; USPAT	OR	ON	2006/07/10 11:00
S12 4	28	S120 and vacuum	US-PGPUB; USPAT	OR	ON	2006/07/10 10:59
S12 5	1	S120 and bulkhead	US-PGPUB; USPAT	OR	ON	2006/07/10 10:59

## EAST Search History

S12 6	137612	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/10 11:00
S12 7	4	S126 and "vacuum bulkhead"	US-PGPUB; USPAT	OR	ON	2006/07/10 13:36
S12 8	137612	(lithography photolithography)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/10 13:37
S12 9	141	S128 and (((vacuum) with (bulkhead window)) same (steel titanium ceramic\$1 glass))	US-PGPUB; USPAT	OR	ON	2006/07/10 13:51
S13 0	0	S129 and (purge same helium)	US-PGPUB; USPAT	OR	ON	2006/07/10 13:51
S13 1	36	S129 and (helium)	US-PGPUB; USPAT	OR	ON	2006/07/10 13:51
S13 2	325	S128 and (vacuum) and (purge same helium)	US-PGPUB; USPAT	OR	ON	2006/07/10 13:53
S13 3	63	S132 and (vacuum with window)	US-PGPUB; USPAT	OR	ON	2006/07/10 13:57
S13 5	1	S132 and "differential exhaust"	US-PGPUB; USPAT	OR	ON	2006/07/10 13:57

## EAST Search History

S13 6	40	(US-20020018192-\$ or US-20040227915-\$ or US-20040036846-\$ or US-20030213382-\$ or US-20030035090-\$ or US-20040174506-\$ or US-20050134862-\$ or US-20020166982-\$ or US-20010055117-\$ or US-20010028052-\$ or US-20030121022-\$ or US-20030081722-\$ or US-20040179192-\$ or US-20020163741-\$ or US-20040214483-\$).did. or (US-6331885-\$ or US-6841323-\$ or US-6741332-\$ or US-6437864-\$ or US-6355994-\$ or US-6184596-\$ or US-5925956-\$ or US-5818137-\$ or US-5638211-\$ or US-6873478-\$ or US-6879375-\$ or US-5654553-\$ or US-5172160-\$ or US-7057193-\$ or US-4215192-\$ or US-7019846-\$ or US-6869807-\$ or US-6671039-\$ or US-6922293-\$ or US-6081581-\$ or US-6774981-\$ or US-6477898-\$ or US-4886570-\$ or US-5353323-\$ or US-6940582-\$).did.	US-PGPUB; USPAT	OR	ON	2006/07/10 14:45
S13 7	12	S136 and develop	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/10 14:45